

ABSTRACT OF THE DISCLOSURE

A method for playing back a program which includes one or more interactive applications. A program which is stored, either in the form of a data stream or as a set of files is played back from a storage device. When playback is started, applications which are detected are launched. Applications are detected in the playback of pushed content when they become available in the playback stream. Applications are detected in the playback of pulled content by comparing the validity ranges of the applications to a current playback index. When special playback modes are used, signals which affect the lifecycle of an application are detected and corresponding signals are generated to maintain the proper state of the application. During these special playback modes, these various notification signals may be conveyed to applications which are configured to operate during these modes. Applications which are not configured to operate during these special playback modes may be terminated when the special modes are initiated and restarted when the special modes end.

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